

RECEIVED

MAY 20 2002

FISH & RICHARDSON, P.C

SAN DIEGO

MAY 10. 2002

PTAS

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov

FISH & RICHARDSON P.C. SCOTT C. HARRIS 4350 LA JOLLA VILLAGE DRIVE, SUITE 500 SAN DIEGO, CALIFORNIA 92122



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT CORRECTED NOTICE

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/16/2002

REEL/FRAME: 012496/0009

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MALEKI, LUFTOLLAH

DOC DATE: 12/05/2001

ASSIGNOR:

ILCHENKO, VLADIMIR

DOC DATE: 12/05/2001

ASSIGNEE:

CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CALIFORNIA 91125

SERIAL NUMBER: 09925713

PATENT NUMBER:

FILING DATE: 08/08/2001

ISSUE DATE:

MARGARET LASALLE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

05-10-2002



Substitute Form PTO-1595 Attorney Docket No.: 06618-677001 Client's Ref. No.: CIT-3268 / CIT-3415

ER SHEET

102081638

Commissioner for Patents: Please record the attached original doc 1. Name of conveying party(ies):	2. Name and address of receiving party(les):
Luftollah Maleki and Vladimir lichenko	California Institute of Technology
Additional name(s) attached? Yes No	1200 East California Boulevard
3. Nature of conveyance:	Pasadena, CA 91125
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other:	
Execution Date: 12/05/2001	Additional names/addresses attached? 🗅 Yes 🗷 No
4. Application number(s) or patent number(s):	
If this document is being filed with a new application, the execu	tion date of the application is:
A. Patent Application No(s).:	B: Patent No(s).:
09/925,713	
Additional number	s attached? □ Yes ❷ No
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved; 1
SCOTT C. HARRIS	7. Total fee (37 CFR §3,41); \$40
PTO Customer No. 20985	@ Enclosed
Fish & Richardson P.C.	☐ Authorized to charge Deposit Account.
4350 La Jolla VIllage Drive, Suite 500 San Diego, California 92122	8. Deposit Account No.: 06-1050
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT L	ISE THIS SPACE
D. Statement and Signature: To the best of my knowledge a any attached copy is a true copy of the original docum	and belief, the foregoing information is true and correct and ent.
Scott C. Harris Reg. No. 32,030	and belief, the foregoing information is true and correct and sent. JAMES T. HAGLER REG. NO 40,631 December 5, 2001
Scott C. Harris Reg. No. 32,030	IAMES T. HAGLER REG. NO 40,631
Scott C. Harris Reg. No. 32,030	IAMES T. HAGLER REG. NO 40,631 December 5, 2001

10151245.400

CERTIFICACE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 17 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service is first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231

Norman Green
Typed Name of Person Signing Certificate

em transmission and a superior of the contract of

ASSIGNMENT

For valuable consideration, we, LUFTOLLAH MALEKI of 1230 Glen Oaks Boulevard. Pasadena, CA 91105, and VLADIMIR ILCHENKO of 2115 La Canada Crest, #111, La Canada, CA 91011, hereby assign to California Institute of Technology, a non-profit corporation having a place of business at 1200 East California Boulevard, Pasadona, CA 91125; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled OFTICAL SENSING BASED ON WHISPERING-GALLERY-MODE MICROCAVITY, filed August 8, 2001, and assigned U.S. Serial Number 09/925.713: this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignce to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Wilst

Date

10141375 dec

Attorney's Docket No.: 06618-677001 / CIT-3268 / CIT-3415

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : Applicant : Luftollah Maleki, et al Examiner: Unknown Serial No.: 09/925,713

Filed : August 8, 2001

Title : OPTICAL SENSING BASED ON WHISPERING-GALLERY-MODE

MICROCAVITY

U.S. Patent and Trademark Office Assignment Division Box Assignments-CG-4 1213 Jefferson Davis Hwy., Suite 320 Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Applicants request that the inventor's name be corrected on the Recordation Form Cover Sheet for the above case. mistake was made by the Patent Office as evidenced by the Assignment and Recordation Form Cover Sheet, copies of which are enclosed.

Please correct the inventor's name to read as follows: Vladimir Ilchenko.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR \$1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date or Deposit

Signature

Sharon Gebhart Typed or Printed Person Certificate

Attorney's Docket No.: 06618-677001/C1T-3268/CIT-3415

No fee is believed to be due. Please apply any charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 12, 2002

Scott C. Harris Reg. No. 32,030

REG. NO 43,322

Fish & Richardson P.C. PTO Customer No. 20985 4350 La Jolla Village Drive, Suite 500 San Diego, California 92122 (858) 678-5070 telephone (858) 678-5099 facsimile

10177060.doc



PTAS

UNITED STAILS DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

101830362A

NOVEMBER 01, 2001

FISH & RICHARDSON P.C. SCOTT C. HARRIS

4350 LA JOLLA VILLAGE DRIVE, SUITE 500 SAN DIEGO, CALIFORNIA 92122

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CC-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/27/2001

REEL/FRAME: 012115/0428

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSTGNOR:

MALEKI, LUTFOLLAH

DOC DATE: 07/31/2001

ASSIGNOR:

YAO, XIAOTIAN S.

DOC DATE: 08/17/2001

ASSIGNOR:

ILCHENKO, VLADIMIR

DOC DATE: 08/22/2001

ASSIGNEE:

CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CALIFORNIA 91125

SERIAL NUMBER: 09816872

PATENT NUMBER:

FILING DATE: 03/22/2001

ISSUE DATE:

No Docketing Report of .;cmslh Recovered by 1939 NOV 0 9 2001 ceretary keyjewed by EISH & RICHARDSON P.C. toitials: LA JOLLA, CA

012115/0428 PAGE 2

ALLYSON PURNELL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

08-31-2001

Substitute Form PTO-1595 Attorney Docket No.: 08818-805001 Client's Ref. No.: CIT 3188

R



HEET

101830362

2. Name and address of receiving party(les): California Institute of Technology 1200 East California Boulevard Pasadena, CA 91125 Additional names/addresses attached? □ Yes ■ No ion, the execution date of the application is: B: Patent No(s).: itional numbers attached? □ Yes ■ No onceming 6. Total number of applications/patents invulved: 1
1200 East California Boulevard Pasadena, CA 91125 2001; Additional names/addresses attached? □ Yes ☑ No ion, the execution date of the application is: B: Patent No(s).: itional numbers attached? □ Yes ☑ No
Additional names/addresses attached?
ion, the execution date of the application is: B: Patent No(s).: (Bonal numbers attached? ☐ Yes 图 No
B: Palent No(s).:
B: Palent No(s).:
itional numbers attached? ☐ Yes 图 No
oncernino
oncernino
6. Total number of applications/patents involved; 1
7. Total fee (37 CFR §3.41): \$40
☑ Enclosed ☑ Authorized to charge Deposit Account.
B. Deposit Account No.: 06-1050
Please apply any additional charges, or any credits, to our Deposit Account No. 08-1050.
DO NOT USE THIS SPACE
cnowledge and belief, the foregoing information is true and correctional document.
1/5-
gnature Date
Total number of pages including coversheet, attachments and docu
7

07/34, 01 TUE 10:50 PAX

10117149.doc

F&R

@1005

Attorney Docket No. 06618-605001/CIT3188

ASSIGNMENT

For valuable consideration, we, LUTFOLLAH MALEKI of Pasadena, California, XIAOTIAN S. YAO of Diamond Bar, California, and YLADIMIR ILCHENKO of La Canada. California, hereby assign to: California Institute of Technology, a non-profit corporation having a place of business at: 1200 Bast California Boulevard, Pasadena, CA 91125; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled NON-SPHERICAL, WHISPERING-GALLERY-MODE MICROCAVITY, filed March 22, 2001, and assigned U.S. Serial Number 09/816,872; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Dare: 7/31/01	1- Mil
	LUTFOLLAH MALEKI
Date:	XIAOTIAN S. YAO
Date:	
	VLADIMIR ILCHENKO

FROM : General Photonics

FRX NO. : 929-902-5536

Aug. 17 2001 05:02PM

P5 143005

Attorney Docket No. 06618-605001/CTT3188

ASSIGNMENT

For valuable consideration, we, LUTFOLLAH MALEKI of Pasadena, California. XIAOTIAN S. YAO of Diamond Bar, California, and VLADIMIR ILCHENKO of La Canada, California, hereby assign to: California Institute of Technology, a non-profit corporation having a place of business at: 1200 East California Boulevard, Pasadena, CA 91125; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled NON-SPHERICAL WHISPERING-GALLERY-MODE MICROCAVITY filed Memb 22, 2001, and emigrand U.S. Serial-Number 09/816.872; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models. design registrations and like rights of exclusion and for investors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

LUTFOLLAH MALEKI
XIAOTIAN S. YAQ
VLADIMIR ILCHENKO

10127149.000

1

02/17/2004 16:28 FAX 1 858 678 5099' -

08/17/01 FRI 15:16 FAX

10117149 doc

F&R

@ 005

Attorney Docket No. 06618-605001/CTT3188

ASSIGNMENT

For valuable consideration, we, LUTFOLLAH MALEKI of Pasadena, California, XIAOTIAN S. YAO of Diamond Bar, California, and VLADIMIR ILCHENKO of La Canada, California, hereby assign to: California Institute of Technology, a non-profit corporation having a place of business at: 1200 East California Boulevard, Pasadena, CA 91125; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an supplication for United States Patent signed by us, entitled NON-SPHERICAL WHISPERING-GALLERY-MODE MICROCAVITY, filed March 22, 2001, and assigned U.S. Serial Number 09/816,872; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date:	LUTFOLLAH MALEKI
Date:	XIAOTIAN S. YAO
Date: 8/22/0/	VLADIMIR TLCHENKO